AMENDMENTS TO THE CLAIMS

1. (currently amended) An isolated DNA ~~sequence~~ encoding ~~barley~~ *Hordeum vulgare* HPPD.

2. (previously presented) An expression cassette comprising a promoter and the DNA sequence of claim 1.

3. (previously presented) The expression cassette of claim 2, comprising a CaMV 35S promoter.

4. (previously presented) The expression cassette of claim 2, comprising a seed-specific phaseolin promoter.

5. (previously presented) The expression cassette of claim 2, wherein a *Hordeum vulgare* DNA encoding for a HPPD is functionally linked to another protein in such a way that a joint translation product is formed.

6. (previously presented) A process for transforming plants comprising the step of incorporating into plants the expression cassette as claimed in claim 2.

7. (previously presented) A method of transforming plants comprising the step of incorporating into plants the expression cassette as claimed in claim 2 into a plant cell, into callus tissue, into an entire plant or into plant cell protoplasts.

8. (previously presented) A method of transforming a plant, which comprises

a) transferring the expression cassette of claim 2 into a strain of *Agrobacterium* cells, and

b) transforming the plant with the *Agrobacterium* cells obtained in a).

9. (previously presented) The method as claimed in claim 8, the transformation being accomplished with the aid of the strain *Agrobacterium tumefaciens*.

10. (previously presented) The method of transforming plants as claimed in claim 7, wherein the transformation is accomplished with the aid of electroporation.

11. (previously presented) The method of transforming plants as claimed in claim 7, wherein the transformation is accomplished with the aid of the particle bombardment method.

12. (previously presented) A plant with an elevated vitamin E content, comprising the expression cassette as claimed in claim 2.

13. (previously presented) The plant as claimed in claim 12, selected from the group consisting of soya, barley, oat, wheat, oilseed rape, maize, and sunflower.

14. (previously presented) A method of generating plants with an elevated vitamin E content, which comprises expressing, in plants, the DNA sequence as claimed in claim 1.

15-24. (canceled)

25. (previously presented) The isolated DNA sequence of claim 1, comprising the sequence of SEQ ID NO: 1.